

Industrial Rotary Dryer for Cement

This industrial rotary dryer is designed for cement and other materials. It consists of a rotating drum, lifting blades, and a driving mechanism for efficient drying.



Overview

High-Efficiency Industrial Drying Solution

This Industrial Rotary Dryer is a versatile solution designed for heavy-duty applications in building materials, metallurgy, and chemical industries. It is specifically engineered to handle a wide variety of materials including slag, coal powder, mining powder, clay, and limestone. With its robust construction and optimized heat exchange system, it offers high drying capacity with low energy consumption.

Key Performance Metrics

Performance Highlights

High

Drying Efficiency

Low

Energy Consumption

Smooth

Rotation Stability

Technical Design



The robust cylindrical drum is constructed from thick steel and supported by heavy-duty rollers for stable, continuous operation.

Main Components

- Rotary body (cylindrical drum)
- Lifting blades
- Driving device
- Supporting device
- Feeding gutter
- Shoveling plate

Construction Features

- Thick steel cylindrical drum
- Reinforced flanges
- Smooth internal surface
- Durable exterior coating
- Robust roller supports

Application & Materials

Target Industries

Building Materials • Metallurgy • Chemical Industry • Cement Production • Coal Mining

Compatible Materials

Cement, Slag, Coal Powder, Mining Powder, Clay, Sand, Limestone, Metallic Minerals, Non-metallic Minerals

Operation

Heat Exchange Process

The dryer operates by introducing heat from a burning device through an air current. Materials enter via a feeding box and move through the tilted cylinder under gravity and rotary force. Internal shoveling plates continuously lift and scatter the material to form an even curtain, ensuring maximum heat exchange and moisture removal.

Operational Benefits

- Easy operation
- Reasonable structure
- High drying capacity
- Continuous heat exchange